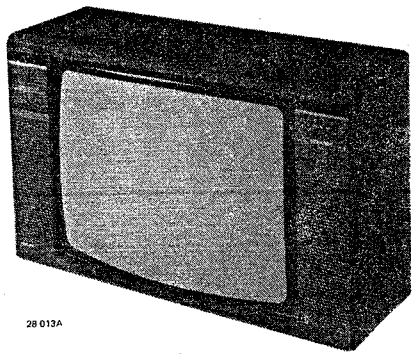
Colour television

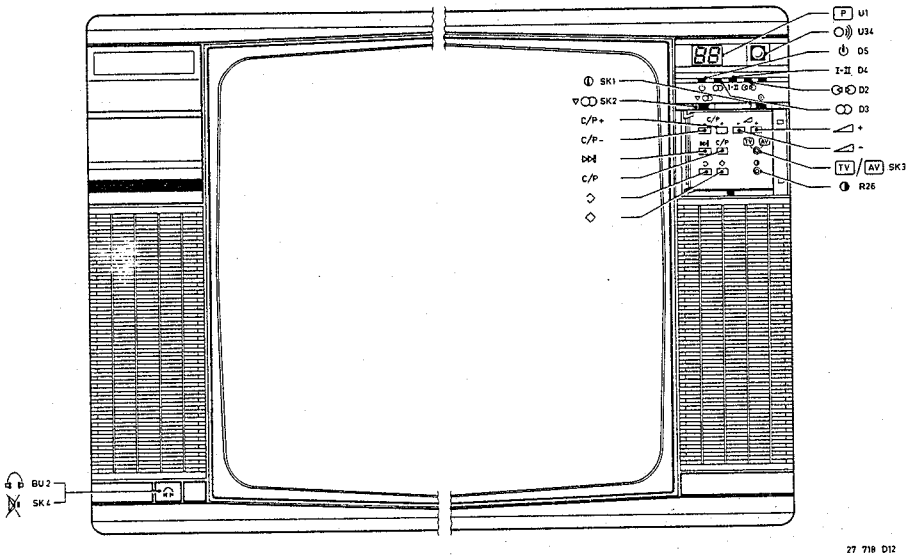
26CS3394/02Z/42Z
26CS3397/02Z/10Z/42Z

Service
Service
Service

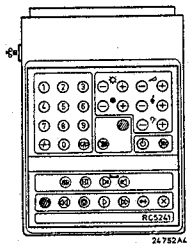


Service Manual

CHASSIS K35



REPAIR METHOD:
"DIGITAL CONTROLS TRDIV"
CIRCUIT DESCRIPTION:
"DIGITAL CONTROLS TRDIV"
+
FOR/42Z: 22AV1015/02
22AV1016/02



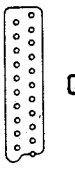
RC 5241

220 V~/115 W

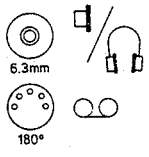
75 Ω coax.

A66-540X

2x 6 W
stereo

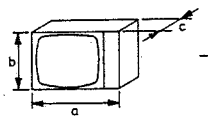


AV → IN/OUT



→ 8-600 Ω

→ ⩾ 47 kΩ/1 V



a x b x c
781 x 511 x 446 mm

V334LO/U324LO		V317LO/U324LO	
VHFa	47 - 88 MHz	VHFa	47 - 111 MHz
b	162 - 230 MHz	b	111 - 293 MHz
UHF	470 - 862 MHz	UHF	470 - 862 MHz

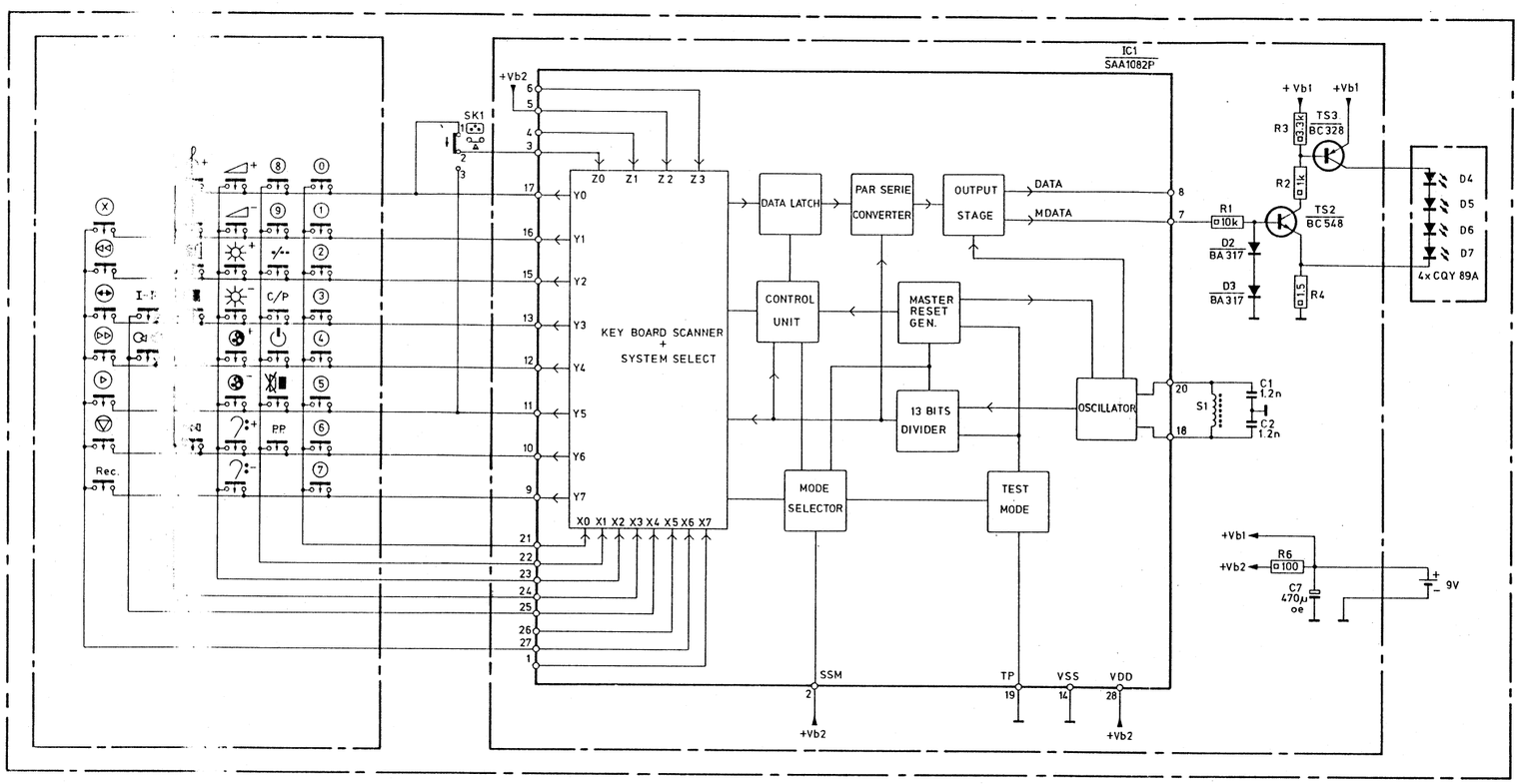
Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

PHILIPS

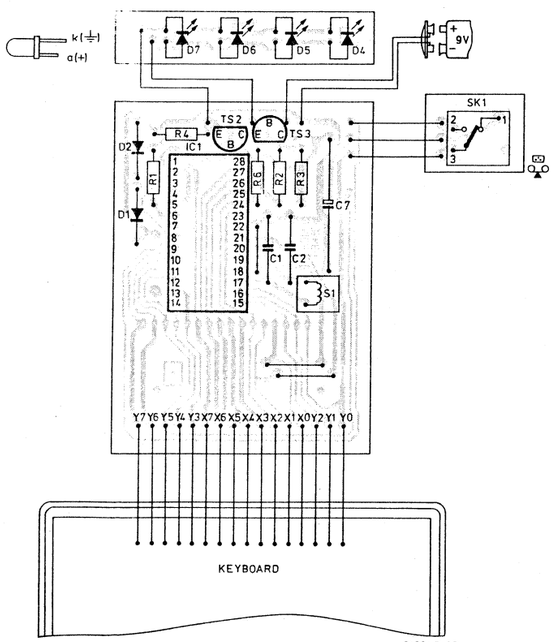
GB NL F D I

Subject to modification
4822 727 13918
Printed in The Netherlands

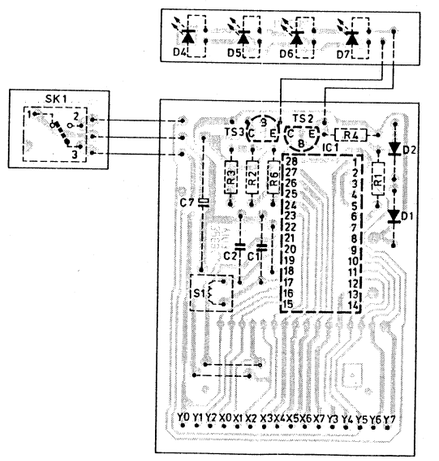
PHILIPS



27011D2

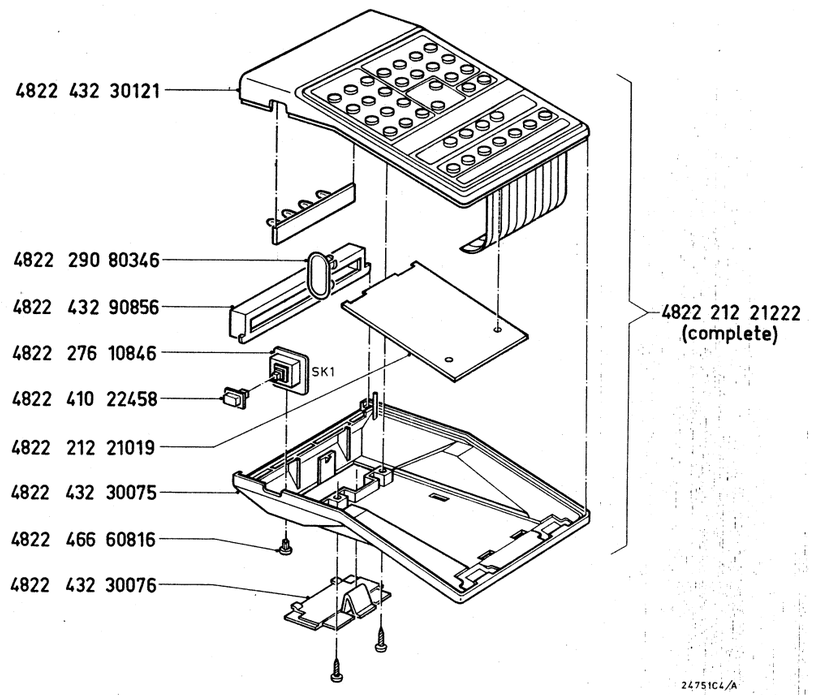


21894B 22

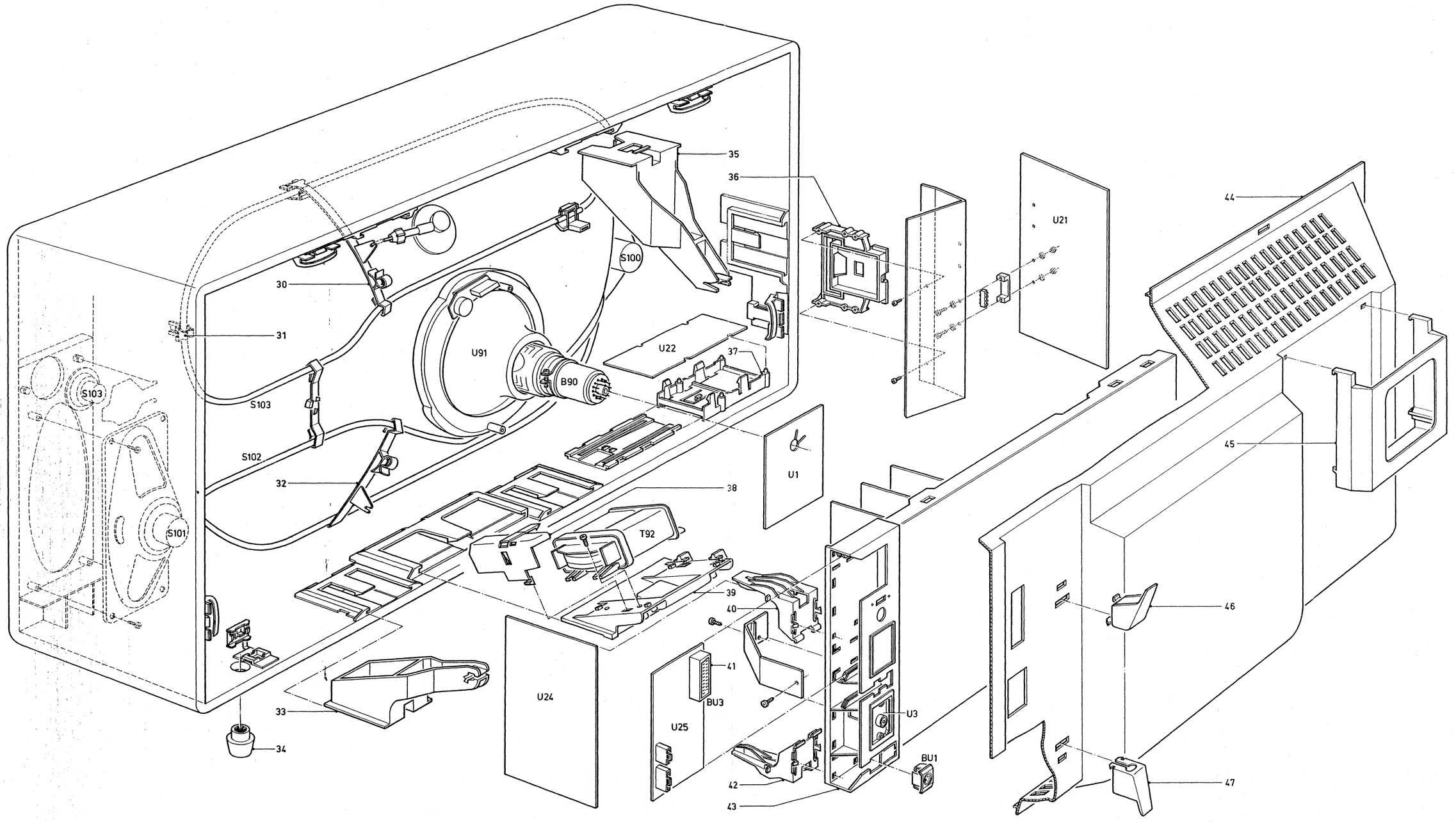


21895B 22

IC1	SAA1082P	4822 209 80613
BC328 BC548		4822 130 44104 4822 130 40938
BA317		4822 130 30847
CQY89A		4822 130 30949
C1 C2	1.2 nF 1.2 nF	4822 121 50439 4822 121 50439
S1		4822 156 20873

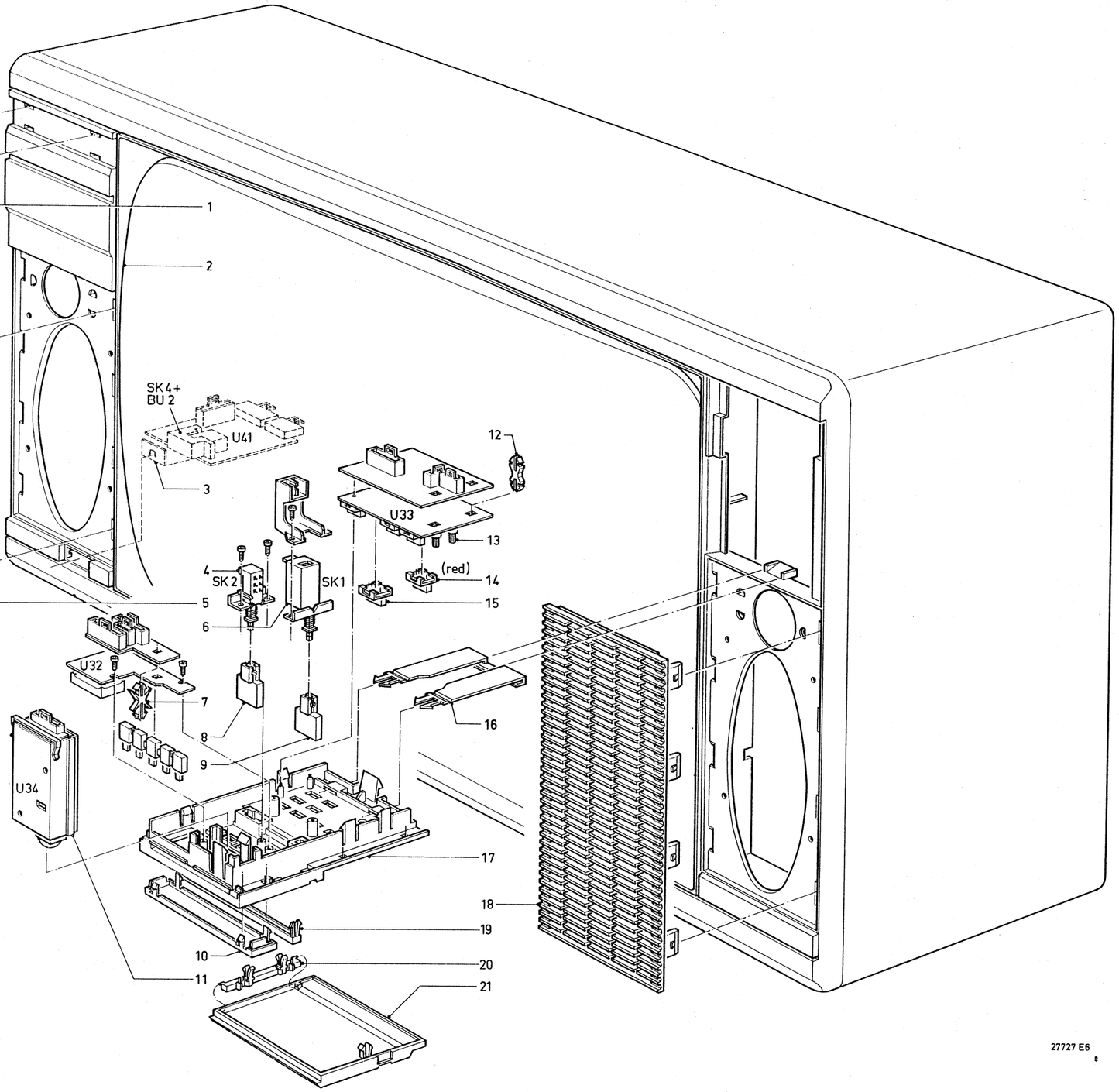


24751C4/A



27 066 F12/A

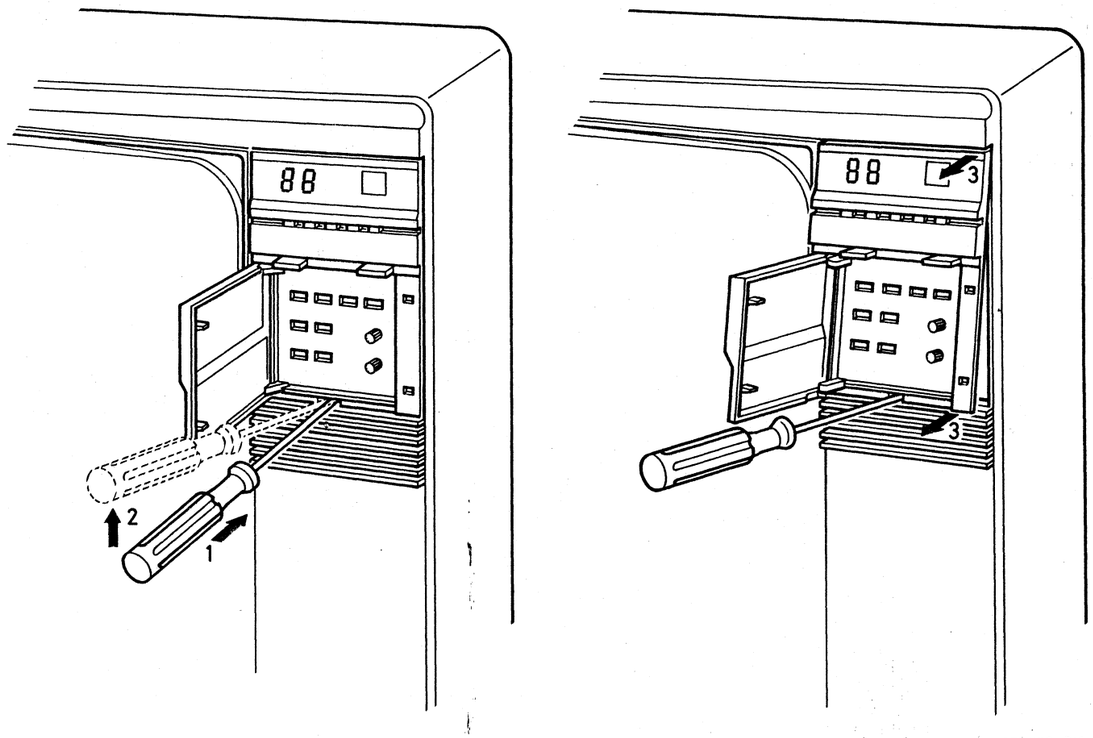
CS 79 427



27727 E6

Pos.	Code number	Description	Version
1	4822 459 20238	Window	26CS3394
1	4822 459 20229	Window	26CS3397
2	4822 451 80652	Mask	26CS3394
2	4822 451 80654	Mask	26CS3397
3	4822 432 91003	Lid headphone	26CS3394
3	4822 432 91007	Lid headphone	26CS3397
4	4822 276 10683	Switch mono/stereo	
5	4822 458 40312	Grill loudspeaker	26CS3394
5	4822 458 30283	Grill loudspeaker	26CS3397
6	4822 276 10781	Switch mains	
7	4822 401 10644	Spacer	
8	4822 410 10066	Push button	
9	4822 410 10066	Push button	
10	4822 459 20238	Window display	26CS3394
10	4822 459 20231	Window display	26CS3397
11	4822 212 20754	Receiver rem. control	26CS3394
11	4822 212 20753	Receiver rem. control	26CS3397
12	4822 401 10751	Spacer	
13	4822 413 31038	Knob potmeter	26CS3394
13	4822 413 10176	Knob potmeter	26CS3397
14	4822 411 60772	Push button (red)	
15	4822 411 60771	Push button (black)	
16	4822 417 10708	Hinge frontpanel	26CS3394
16	4822 417 10703	Hinge frontpanel	26CS3397
17	4822 459 60584	Front panel	26CS3394
17	4822 459 60589	Front panel	26CS3397
18	4822 458 40312	Grill loudspeaker	26CS3394
18	4822 458 30283	Grill loudspeaker	26CS3397
19	4822 459 20236	Window LED's	
20	4822 417 10709	Hinge door	
21	4822 432 91004	Door	26CS3394
21	4822 432 91008	Door	26CS3397
30	4822 404 30236	Clamp degaussing coil	
31	4822 404 30235	Clip degaussing coil	
32	4822 404 30236	Clamp degaussing coil	
33	4822 404 30525	Support chassis	
34	4822 462 10119	Foot	
35	4822 404 30423	Support chassis	
36	4822 464 70233	Holder sound panel	
37	4822 464 70168	Holder power supply	
38	4822 466 30098	Cap mainstransformer	
39	4822 404 30458	Bracket mainstransformer	
40	4822 404 30457	Bracket TRD panel	
41	4822 267 60098	Socket 21 pole	
42	4822 404 30457	Bracket TRD panel	
43	4822 404 30456	Bracket AV interface panel	
44	4822 437 40025	Rear cover	
45	4822 432 10318	Casing rem. contr. transm.	
46	4822 404 30381	Hook mainscable	
47	4822 404 30381	Hook mainscable	

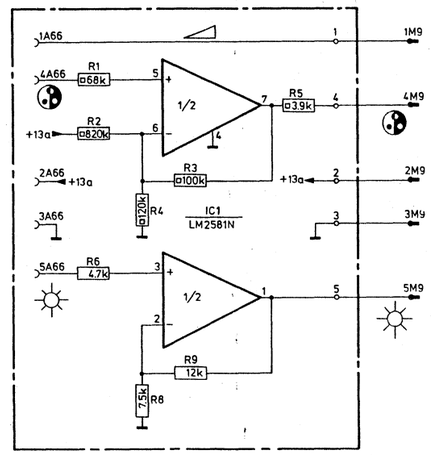
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.



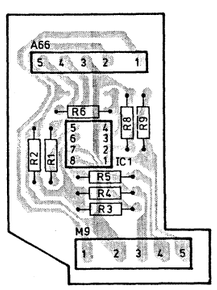
27 069 C12

ONLY FOR /42Z
NUR FUR /42Z

U47



23 728 B12/A



24036A20

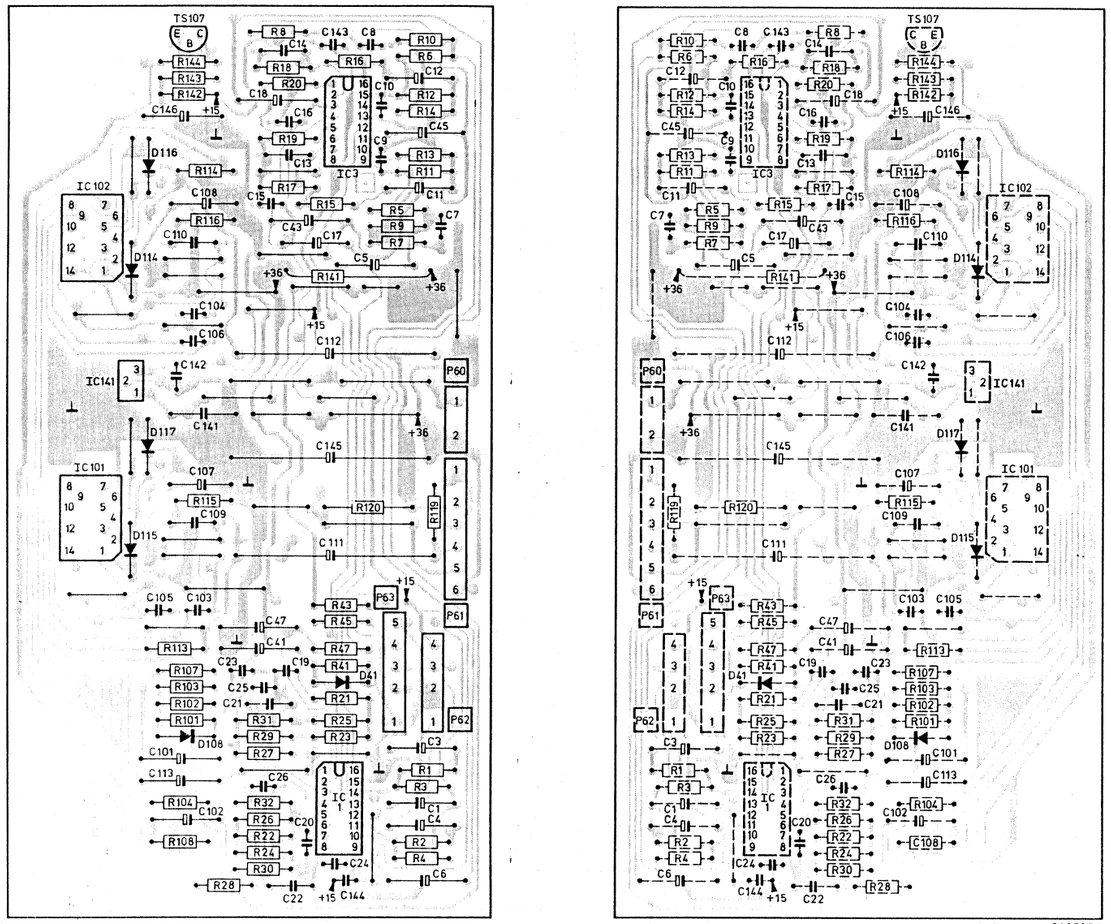
CONTROL ADAPTATION PANEL
4822 212 21192

IC LM258N
4822 209 80866

THIS PANEL IS CONNECTED BETWEEN SOCKET AND PLUG M9

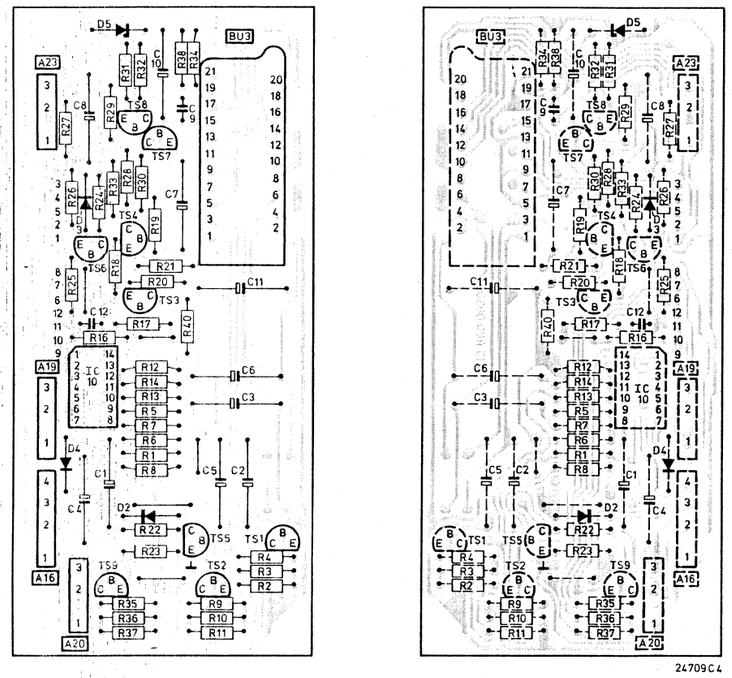
DIESE PRINTPLATTE IST ANGESCHLOSSEN STECKERM9

U21 STEREO SOUND OUTPUT



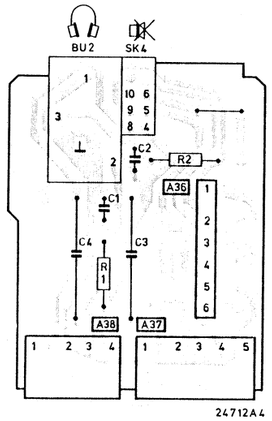
24659D4

U25 AV INTERFACE PANEL



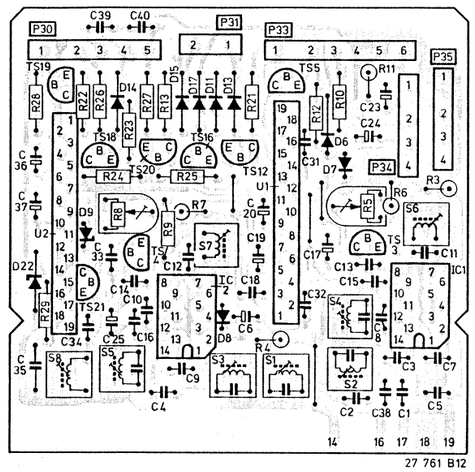
24709C4

U41 HEADPHONE PANEL

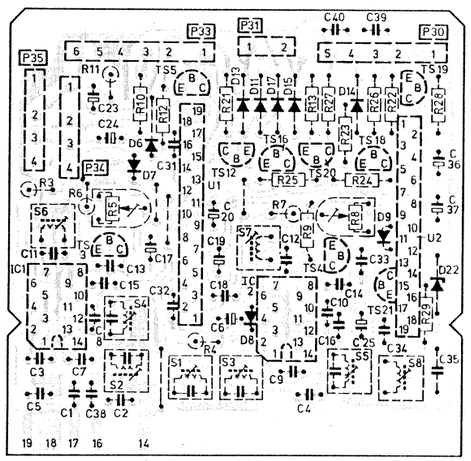


24712A4

U7 STEREO DECODER



27 761 B12



27 763 B12

GB

ALIGNING STEREO DECODER U7

When the aligning instructions refer to a generator signal, the signal originating from colour test-pattern generator PM5519GX is meant.

1. The 5,5 MHz audio section

Apply a transmitter or generator signal of which the sound carrier is frequency modulated (at e.g. 1 kHz).
Select the mono position on the generator.
Adjust S2 and S4 for maximum sound volume.
Subsequently, adjust S6 for minimum interference in the sound.

2. The 5,742 MHz audio section

a. Apply a transmitter signal with 2 sound carriers.
Both sound carriers should be frequency modulated (at e.g. 1 kHz) and the 2nd sound carrier should be provided with the pilot signal for the 2nd language.
Select the stereo position on the receiver's stereo/mono switch SK2 and switch the TV receiver to mono-channel II position by means of key "I-II" on the remote control transmitter.

Note:
If the set is switched on from the "stand-by" mode the set will be in the "mono-channel I" mode.

b. Or apply a generator signal.
Select the stereo position on the generator and depress key "1 (L), 1+2 (R)".
Subsequently, adjust S1, S3 and S5 for maximum sound volume and S7 for minimum interference in the sound.

3. Channel separation

Apply a generator signal.
Select the stereo position on the generator and depress key "1 (L), 1+2 (R)".
Select the stereo position on the receiver's mono/stereo switch SK2.
Connect an oscilloscope to pin 1 of connector P34.
Adjust R8 for minimum signal on pint 1 of connector P34.

4. Output voltage on mono-channel I/mono-channel II

Apply a generator signal.
Select the 2nd language position on the generator by depressing key "1 (L), 1+2 (R)".
Select the stereo position on the receiver's mono/stereo switch SK2.
Connect an oscilloscope to pin 1 of connector P34.
Select the mono-channel II position on the receiver by means of key "I-II" on the remote control transmitter.
Note the amplitude of the signal on pin 1 of connector P34.
Select the mono-channel I position on the receiver by depressing once again key "I-II" on the remote control transmitter.
Adjust R5 so that the amplitude of the signal on pin 1 of connector P34 equals the value noted.

NL

AFREGEL

Daar waar
de kleure

1. Het 5,5

Voer e
draaggo
Zet de
Regel S
S6 af o

2. Het 5,7

a. Voe
van
frek
is va
Zet
posi
afst

N.B.
Indi
word
kana

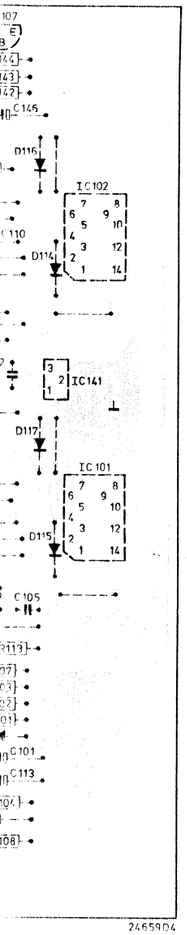
b. Of v
Zet
1+2
Regel v
S7 op

3. Kanaals

Voer ee
Zet de
1+2 (R)
Zet het
SK2 in
van plug
Regel R
minima

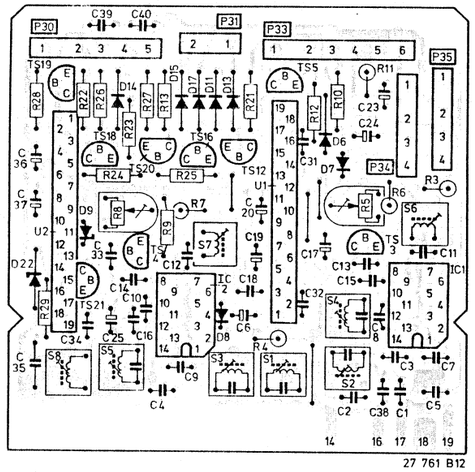
4. Uitgang

Voer ee
Zet de
"1 (L),
Zet op
positie
Zet het
de afsta
amplitu
Zet het
"I-II" v
Regel R
plug P34

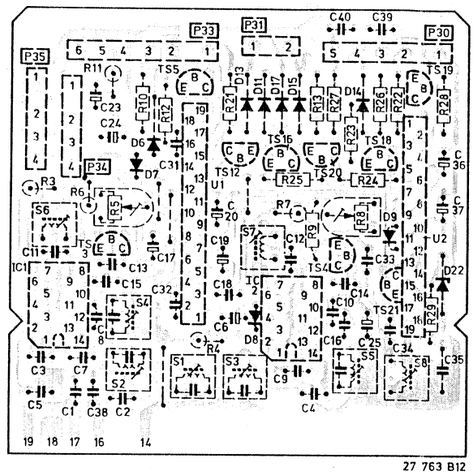


24659D4

U7 STEREO DECODER



27 761 B12



27 763 B12

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Note:
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b. Or apply a generator signal.
Select the stereo position on the generator and depress key "1 (L), 1+2 (R)".

Subsequently, adjust S1, S3 and S5 for maximum sound volume and S7 for minimum interference in the sound.

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Adjust R8 for minimum signal on pint 1 of connector P34.

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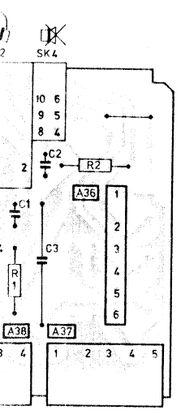
Select the mono-channel I position on the receiver by depressing once again key "I-II" on the remote control transmitter.
Adjust R5 so that the amplitude of the signal on pin 1 of connector P34 equals the value noted.

EADPHONE PANEL



24712A4

NL

AFREGELEN STEREO DECODER U7

Daar waar bij de afregelingen sprake is van een generator-signaal is de kleurenpatroongenerator PM5519GX gebruikt.

1. Het 5,5 MHz geluidsgedeelte

Voer een zender- of generatorsignaal toe, waarvan de geluidsdraaggolf gemoduleerd is met een frekwentie (bijv. 1 kHz).
Zet de generator in de stand mono.
Regel S2 en S4 af op maximale geluidssterkte. Regel vervolgens S6 af op minimale storing in het geluid.

2. Het 5,742 MHz geluidsgedeelte

a. Voer een zendersignaal toe met 2 geluidsdraaggolven, waarvan de geluidsdraaggolven gemoduleerd zijn met een frekwentie (bijv. 1 kHz) en de 2e geluidssdraaggolf voorzien is van het pilootsignaal voor de 2e taal.
Zet op het apparaat de stereo/mono schakelaar SK2 in de positie stereo en met behulp van de toets "I-II" op de afstandsbediening het apparaat in de stand "mono-kanaal II".

N.B.
Indien het apparaat vanuit de stand-by positie ingeschakeld wordt, dan bevindt het apparaat zich in de stand "mono-kanaal I".

b. Of voer een generatorsignaal toe.
Zet de generator in de stand stereo en druk de toets "1 (L), 1+2 (R)" in.

Regel vervolgens S1, S3 en S5 af op maximale geluidssterkte en S7 op minimale storing in het geluid.

3. Kanaalscheiding

Voer een generatorsignaal toe.
Zet de generator in de positie stereo en druk de toets "1 (L), 1+2 (R)" in.
Zet het apparaat met behulp van de mono/stereo schakelaar SK2 in de positie stereo. Sluit een oscillograaf aan op punt 1 van plug P34.
Regel R8 zodanig af dat het signaal op punt 1 van plug P34 minimaal is.

4. Uitgangsspanning mono-kanaal I/mono-kanaal II

Voer een generatorsignaal toe.
Zet de generator in de positie 2nd language door de toets "1 (L), 1+2 (R)" in te drukken.
Zet op het apparaat de mono/stereo schakelaar SK2 in de positie stereo. Sluit een oscillograaf aan op punt 1 van plug P34.
Zet het apparaat vervolgens met behulp van de toets "I-II" op de afstandsbediening in de stand "mono-kanaal II". Noteer de amplitude van het signaal op punt 1 van plug P34.
Zet het apparaat in de stand "mono-kanaal I" door de toets "I-II" van de afstandsbediening opnieuw in te drukken.
Regel R5 zo af, dat de amplitude van het signaal op punt 1 van plug P34 gelijk is aan de genoteerde waarde.

F

AJUSTAGES DECODEUR STEREO U7

Aux ajustages où il est question d'un signal de générateur, il a été fait usage du générateur de mire de couleur PM5519GX.

1. Section son 5,5 MHz

Appliquer un signal d'émetteur et de générateur où la porteuse son est modulée à une fréquence d'1 kHz, par exemple.
Positionner le générateur en mono.
Ajuster S2 et S4 à une intensité sonore maximale.
Ajuster ensuite S6 à un dérangement minimum dans le son.

2. Section son 5,742 MHz

a. Appliquer un signal d'émetteur à deux porteuses son dont l'une doit être modulée à une fréquence de 1 kHz, par exemple et la seconde devant être pourvue d'un signal pilote pour la seconde langue.
Sur l'appareil, mettre le commutateur stéréo/mono SK2 en position stéréo et à l'aide de la touche "I-II" de la commande à distance, régler en position "Canal-mono II".

N.B.:
Si l'appareil est enclenché à partir de la position de mise en veille, l'appareil est positionné sur "canal mono I".

b. Ou appliquer un signal de générateur.
Positionner le générateur sur stéréo et enfoncer la touche "1 (L), 1+2 (R)".

Ajuster ensuite S1, S3 et S5 pour une intensité sonore maximum et S7 pour une interférence minimum dans le son.

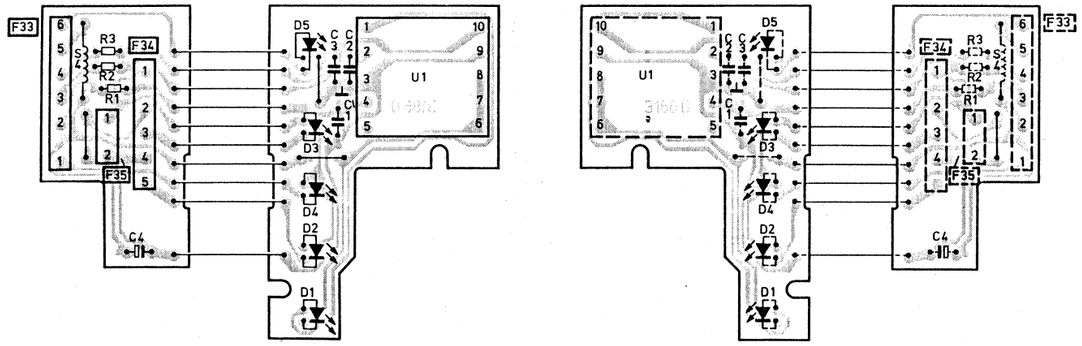
3. Séparation des canaux

Appliquer un signal de générateur.
Positionner le générateur sur "stéréo" et enfoncer la touche "1 (L), 1+2 (R)".
Par le commutateur SK2 mono/stéréo, commuter sur stéréo.
Brancher un oscillographe sur le point 1, fiche P34.
Ajuster R8 pour que le signal sur le point 1 de la fiche P34 soit au minimum.

4. Tension de sortie canal mono I/canal mono II

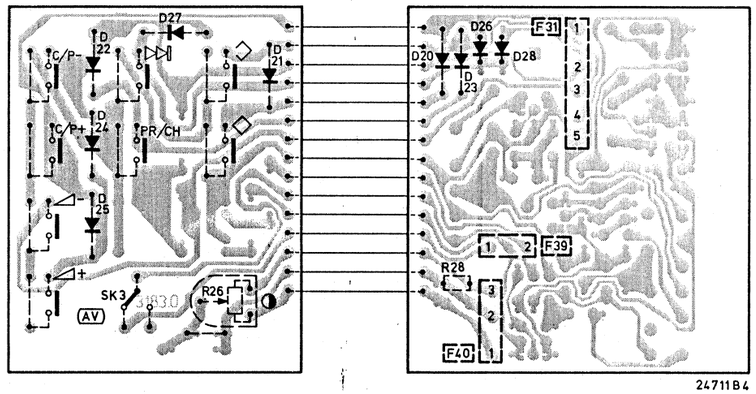
Appliquer un signal de générateur.
Positionner le générateur sur "2ième langue" en enfonçant la touche "1 (L), 1+2 (R)".
Sur l'appareil, positionner le commutateur mono/stéréro SK2 sur stéréo. Brancher un oscillographe sur le point 1 de la fiche P34.
Sur la commande à distance, positionner par la touche "I-II" l'appareil sur "canal mono II".
Noter l'amplitude du signal sur le point 1 de la fiche P34.
Positionner l'appareil sur "canal mono I" en réenfonçant la touche "I-II" de la commande à distance.
Ajuster ensuite R5 pour que l'amplitude du signal sur le point 1 de P34 soit égale à la valeur notée.

U32 DISPLAY PANEL



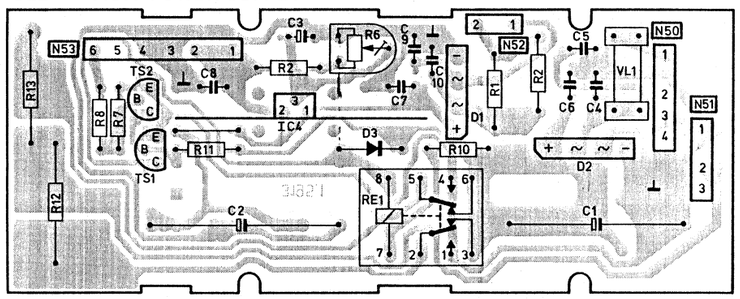
24710C4

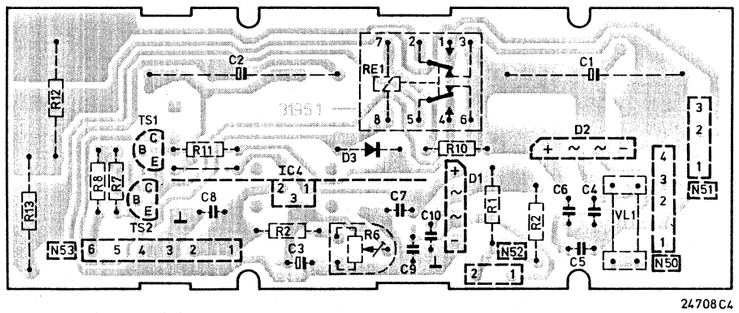
U33 LOCAL KEYBOARD



24711B4

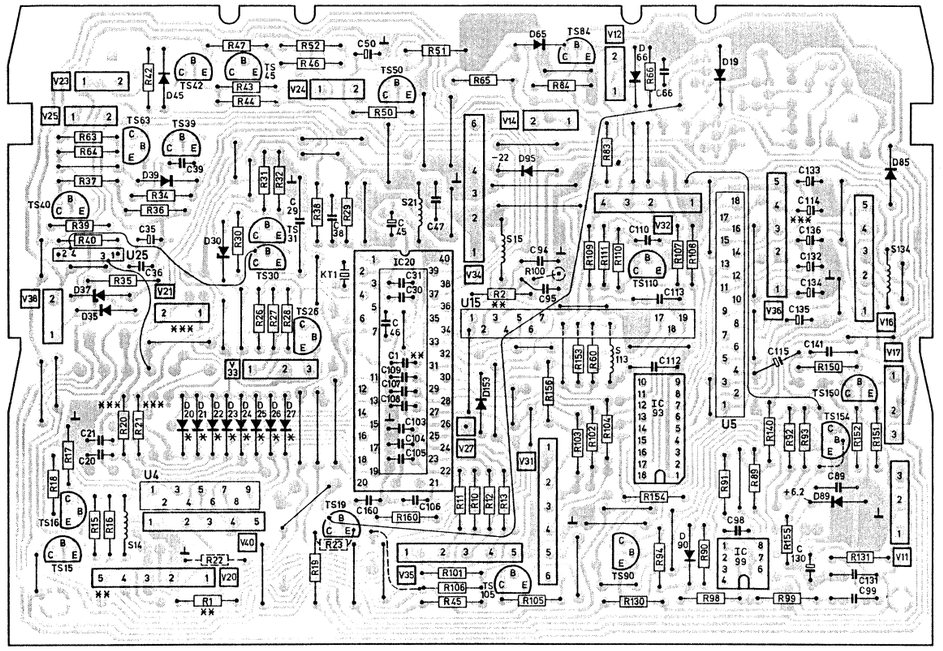
U22 AUX' POWER SUPPLY



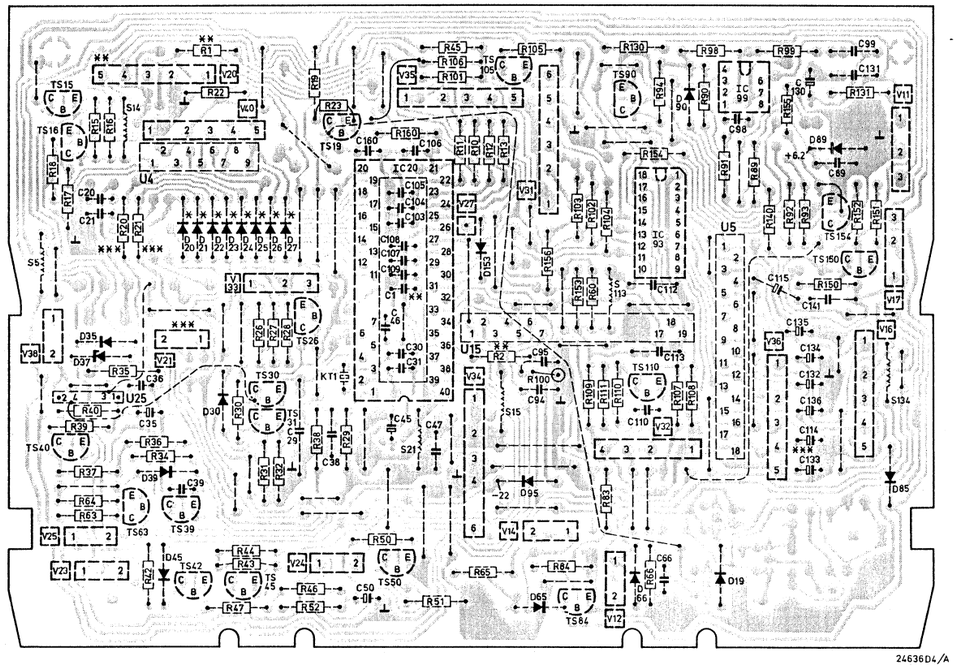


24708C4

U24 TRD IV - 90 PANEL



* OPTIONAL ** ONLY IN SETS WITH TXT *** NOT PRESENT IN MONO-HIFI SETS



24636D4/A

*

D20 - S-CHANNELS

D21 - ONLY UHF

D22 - I-CHANNELS

D23 - ONE DIGIT ENTRY

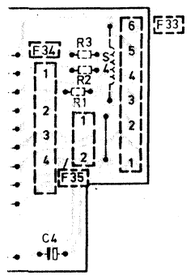
*

D24 - (teletext)

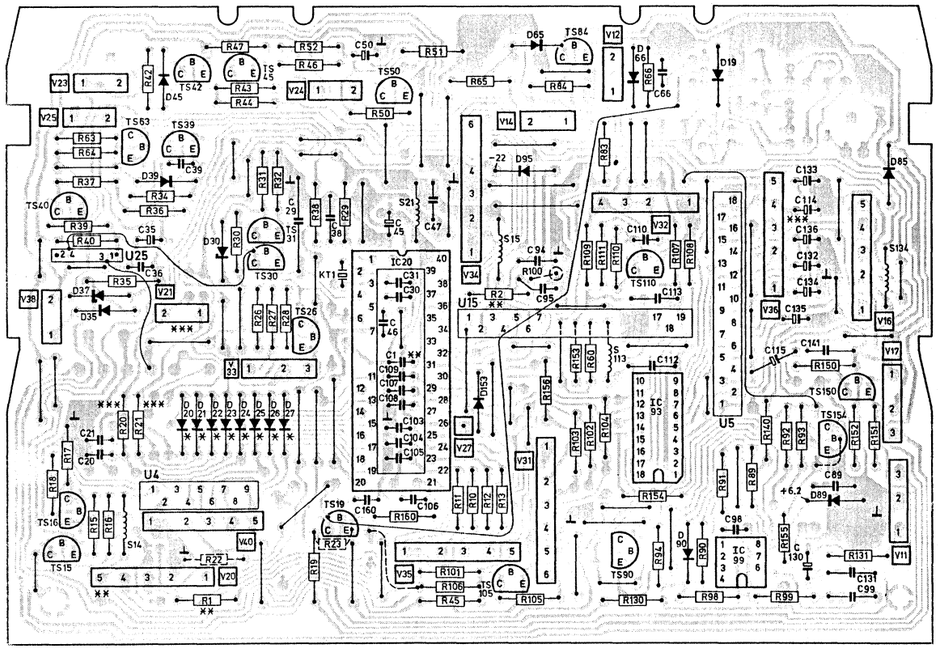
D25 - (subtitle)

D26 - TRANSMITTER IDENTIFICATION

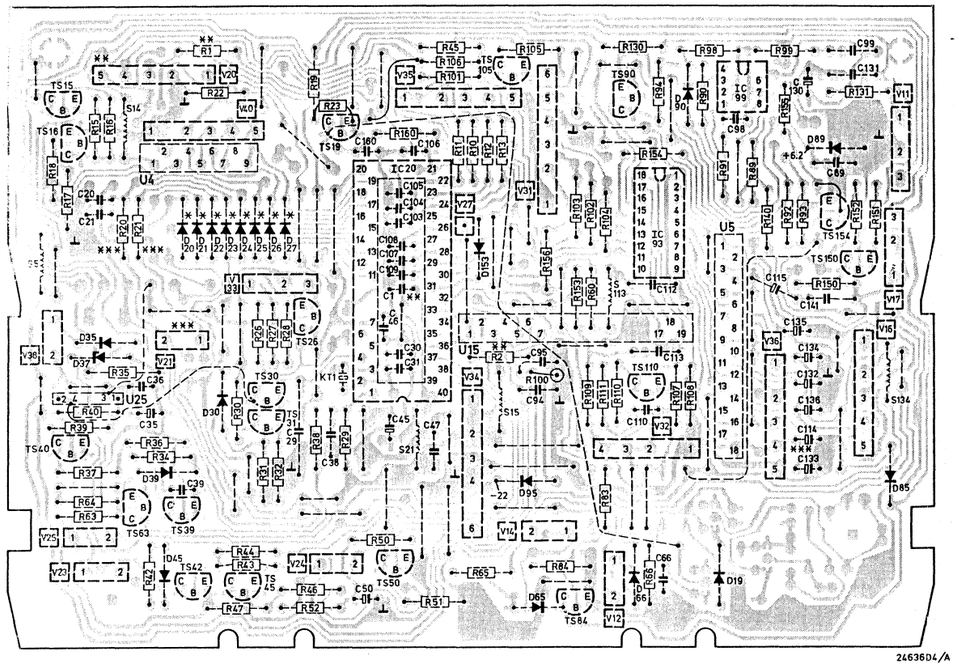
D27 - START SEARCH f_N



U24 TRD IV - 90 PANEL



* OPTIONAL ** ONLY IN SETS WITH TXT *** NOT PRESENT IN MONO-HIFI SETS



*
D20 - S-CHANNELS
D21 - ONLY UHF
D22 - I-CHANNELS
D23 - ONE DIGIT ENTRY

*
D24 -
D25 -
D26 - TRANSMITTER IDENTIFICATION
D27 - START SEARCH f_N

QUICK DIAGNOSIS TABEL TRDIV

INDICATION ON DISPLAY AUF ANZEIGE	INCORRECT FUNCTIONING UNRICHTIGES FUNKTIONIEREN	CORRECT FUNCTIONING RICHTIGES FUNKTIONIEREN	POSSIBLE DEFECTIVE COMPONENT EVENTUELLE SCHADHAFTE KOMPONENTE
			RC TRANSMITTER FERN BEDIENUNG SENDER RC RECEIVER FERN··· BEDIENUNG EMPHANGER TS26,TS105,IC20
E0			U15, IC20
E1			TS39,TS40,TS170 D35,D37,D39,D170,D171
E2			U34,TS26
NOT O.K			IC20
NOT O.K			U32
O.K			U5
O.K			IC93
O.K			IC99,TS90,U4

24 904 C12/A

DIAGRAM-SCHALTBILD-SCHEMA B

U80 IR TRANSMITTER
TRANSMETTORE TELECOMANDO

U34 IR RECEIVER
RICEVITORE TELECOMANDO

U33 LOCAL KEYBOARD

U24 TRD IV-90 PANEL

U22

U25

U15

U4

U32 DISPLAY PANEL

U1

IC20 UPD8049C-163 UPD8050C-163**

IC93 SAB3034

INPUT CONTROL

INGRESSO REGOLAZIONE

SYSTEM CONTROL SELETTORE SISTEMA

PR. "0" LATCH

CHANNEL CONTROL

CONTROLLO DI CANALI

MODE TEST

BAND SELECTION

SELETTORE DI BANDA

DATA PROCESSOR

PROCESSORE DATI

POWER ON RESET

RESET ALL' ACCENSIONE

VOLTAGE DETECTOR

RIVELATORE DI STATO

STATUS DETECTOR

RIVELATORE DI TENSIONE

TRANSMITTER IDENT.

TRANSMET.

A&T CLOCK

AFC CONTROL

CONTROLLO CAF

MEMORY CONTROL

MEMORIA DI REGOLAZIONE

ADDRESS DECODER

DECOD. INDIRIZZI

SELECTOR

DECOD. DI SELEZIONE

MEMORY 100 x 14 BITS

MEMORIA 100 x 14 BITS

DATA REGISTER

REGISTRO DATI

SEPARATORE I/O BUFFER

CLOCK OSCILLATOR

OSCILLATORE DI CLOCK

D-BUS RECEIVER

RECIVITORE D-BUS

DATA BUFFER DEI DATI

FREQUENCY BUFFER DI FREQUENZA

REFERENCE COUNTER CONTATORE DI RIFERMENTO

FREQUENCY COUNTER CONTATORE DI FREQUENZA

CLOCK SWITCH COMMUTATORE DI CLOCK

TUNING CONTROL CONTATORE DI SINTONIA

ANALOGUE CONTROL CONTROLLO ANALOGICO

ANALOGUE REGISTER REGISTRO ANALOGICO

DECODER + DISPLAY DRIVER

DECODIFICATORE + PILOTA DISPLAY

RC-5 DATA

ACK

STATUS STATO

DLEN

CLOCK

DATA

DLIM

SILT

AFC-ON

AFC ON

Fup

Fdown

FIN

V_{UHF}

V_{VHFb}

V_{VHFa}

* OPTIONAL

** ONLY IN SETS WITH TXT

*** NOT PRESENT IN MONO-HIFI S

CS 79 431

ANEL

IC20
UPD8049C–163
UPD8050C–163 **

INPUT CONTROL

INGRESSO REGOLAZIONE

SYSTEM CONTROL SELETTORE SISTEMA

PR. "0" LATCH

CHANNEL CONTROL

CONTROLLO DI CANALI

MODE TEST

BAND SELECTION

SELETTORE DI BANDA

DATA PROCESSOR

PROCESSORE DATI

A&T CLOCK

POWER ON RESET

RESET ALL' ACCENSIONE

VOLTAGE DETECTOR

RIVELATORE DI STATO

STATUS DETECTOR

RIVELATORE DI TENSIONE

TRANSMITTER IDENT

TRANSMET.

AFC CONTROL

CONTROLLO CAF

MEMORY CONTROL

MEMORIA DI REGOLAZIONE

U4

U5

U15

ADDRESS DECODER

DECOD. INDIRIZZI

SELECTOR

DECOD. DI SELEZIONE

MEMORY 100 × 14 BITS

MEMORIA 100 × 14 BITS

DATA REGISTER

REGISTRO DATI

SEPARATORE I/O BUFFER

CLOCK OSCILLATOR

OSCILLATORE DI CLOCK

U25

IC93 SAB3034

D-BUS RECEIVER

RECIVITORE D-BUS

REFERENCE COUNTER CONTATORE DI RIFERMENTO

DATA BUFFER DEI DATI

FREQUENCY BUFFER DI FREQUENZA

FREQUENCY COUNTER CONTATORE DI FREQUENZA

CLOCK SWITCH COMMUTATORE DI CLOCK

TUNING CONTROL CONTATORE DI SINTONIA

ANALOGUE CONTROL CONTROLLO ANALOGICO

ANALOGUE REGISTER REGISTRO ANALOGICO

U32 DISPLAY PANEL

U1

DECODER + DISPLAY DRIVER

DECODIFICATORE + PILOTA DISPLAY

IC99 TL061GCP–00

VCR (PROG. 0 = 12V)

12V–V UHF

12V–V VHF b

12V–V VHF a

AFC

AFC ON

AFC OFF

DATA

CLOCK

DLEN

DLIM

SILT

FIN

Fup

Fdown

* OPTIONAL

** ONLY IN SETS WITH TXT

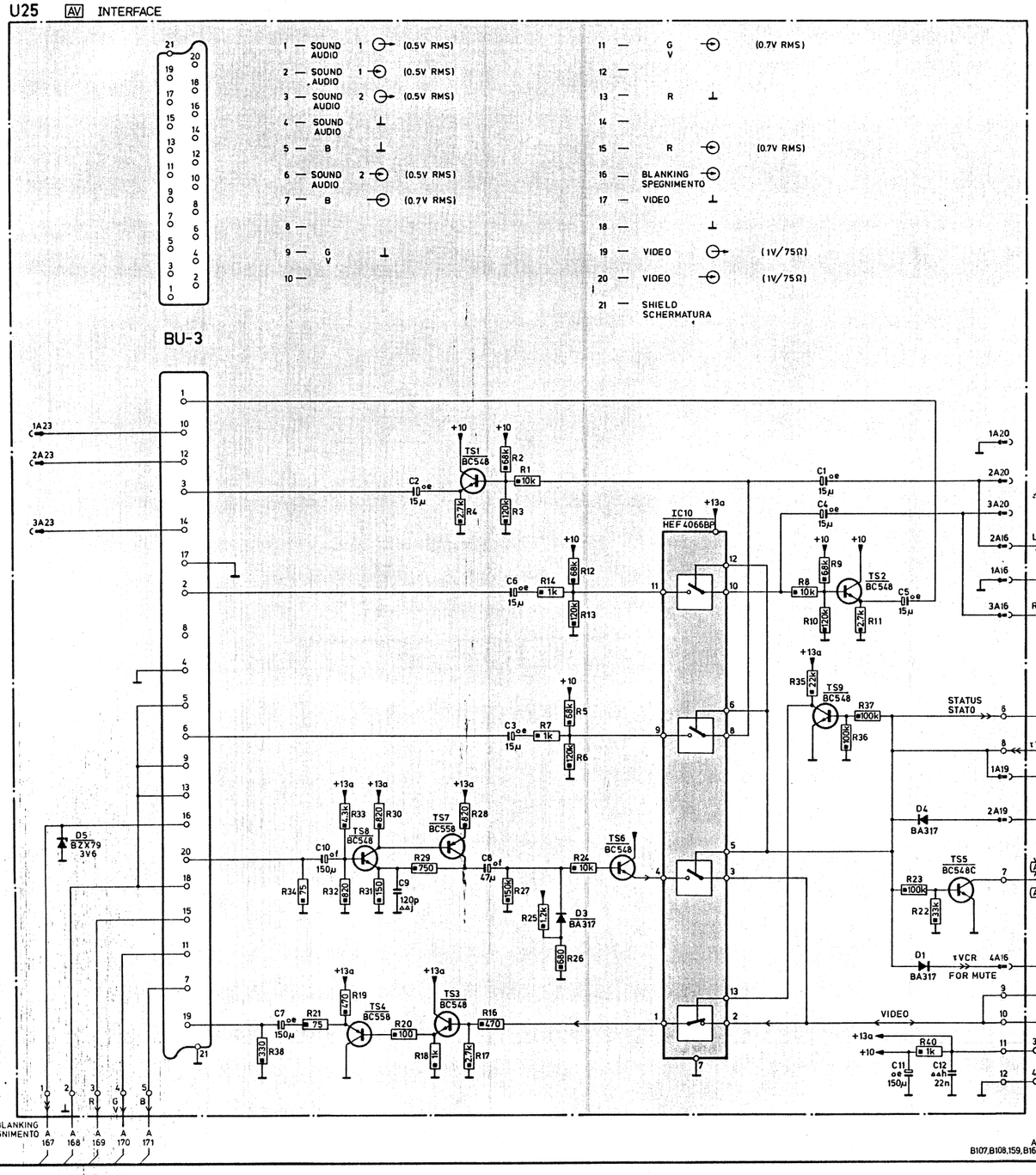
*** NOT PRESENT IN MONO–HIFI SETS

A+C

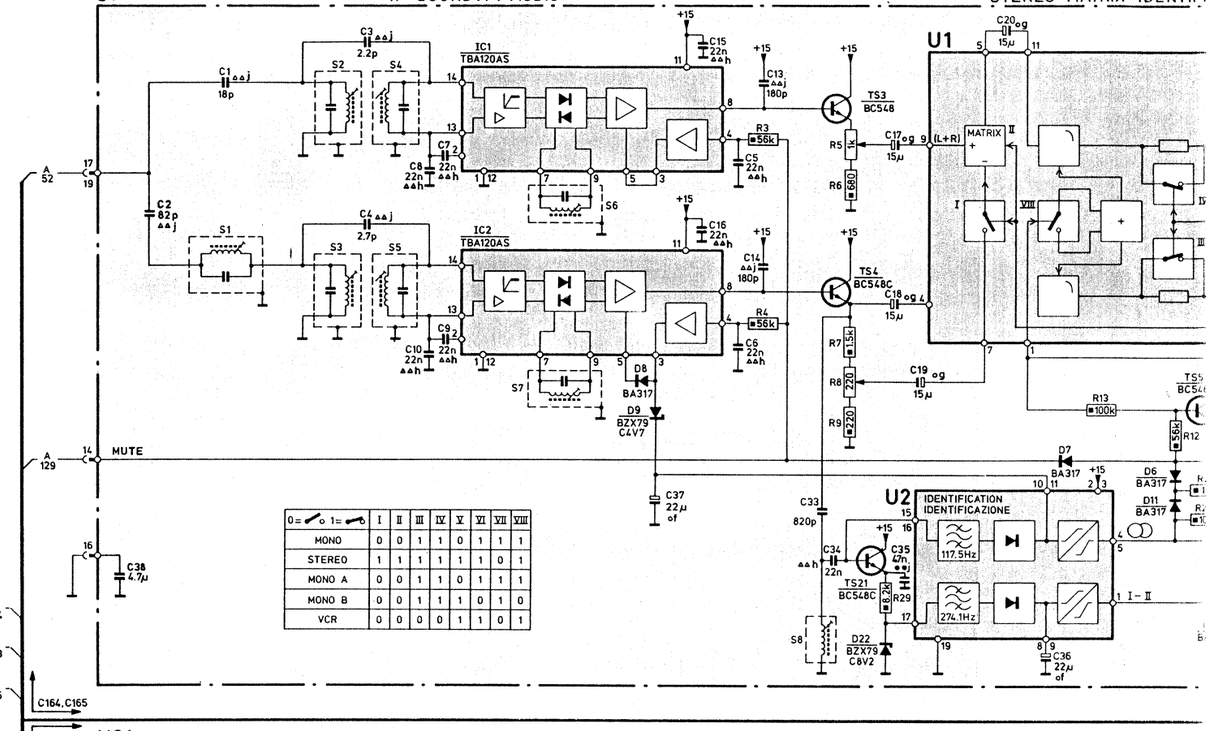
2412AF21/D

DIAGRAM – SCHALTBILD – SCHEMA C

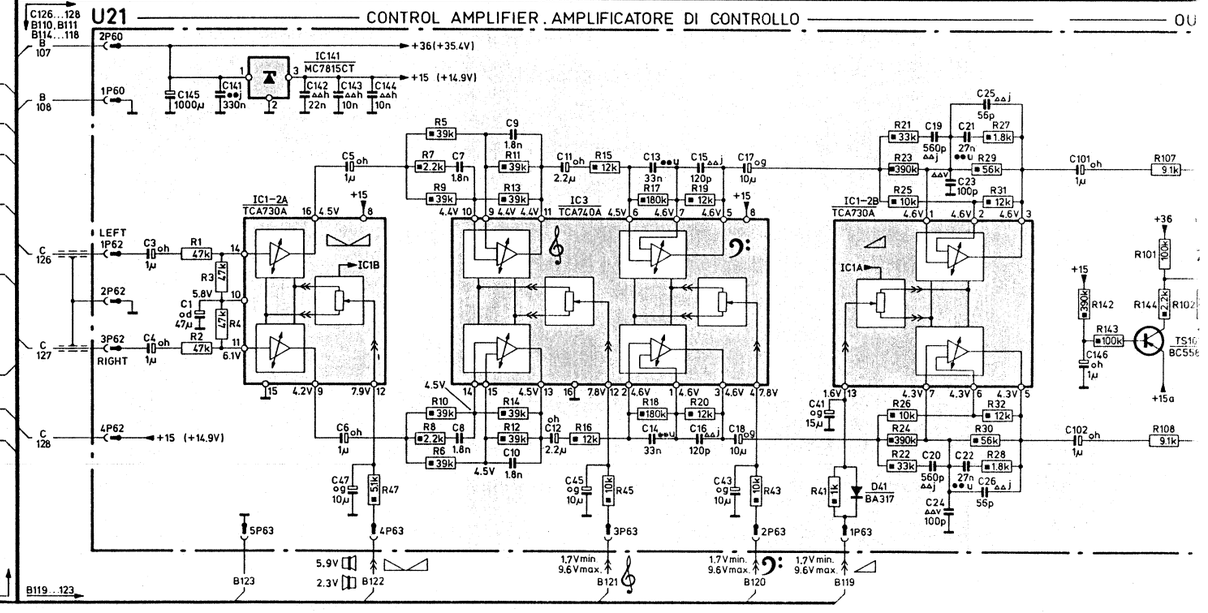
U25 AV INTERFACE



U7 IF SOUND. FI AUDIO — STEREO MATRIX IDENTIFI



U21 CONTROL AMPLIFIER. AMPLIFICATORE DI CONTROLLO — OU



U7 — IF SOUND. FI AUDIO — STEREO MATRIX IDENTIFICATION. MATRICE STEREO IDENTIFICAZIONE

U21 — CONTROL AMPLIFIER. AMPLIFICATORE DI CONTROLLO — OUTPUT AMPLIFIER. AMPLIFICATORE DI USCITA

U41 HEADPHONE PANEL

0= ⟋ 1= ⟍	I	II	III	IV	V	VI	VII	VIII
MONO	0	0	1	1	0	1	1	1
STEREO	1	1	1	1	1	1	0	1
MONO A	0	0	1	1	0	1	1	1
MONO B	0	0	1	1	1	0	1	0
VCR	0	0	0	0	1	1	0	1

24199F12/0

DIAGRAM-SCHALTBILD-SCHEMA A

CHANNEL SELECTOR
KANALWAHLER
SELETTORE CANALE

IF AMPL.+DET.+AGC
ZF VERST.+DEM.+AVR
AMPL. FI+RIVEL.+CAG

CHROMINANCE+LUMINANCE
FARBART+LEUCHTDICHTE
CROMINANZA+LUMINANZA

B+C

SUPPLY
SPEISUNG
ALIMENTAZIONE

SYNCHRONISATION
SINCRONIZZAZIONE

VERTICAL
VERTIKAL
VERTICALE

CHROMINANCE • LUMINANCE
FARBART • LEUCHTDICHTE
CROMINANZA • LUMINANZA

A1/A4 U5

A1/A2 U9

R-G-B AMPLIFIER
R-G-B VERSTÄRKER
AMPLIFICATORE R-V-B

A1/A2 U10

SUPPLY
SPEISUNG
ALIMENTAZIONE

E3/E4 U11

U12

HORIZONTAL
ORIZZONTALE

VERTICAL
VERTIKAL
VERTICALE

EAST-WEST
OST-WEST
EST-OVEST

SEE SERVICE NOTES
VEDERE NOTE SU DOCUMENTAZIONE

B90
26"
A56-540X
22"
A56-540X

K35

24 237 F12/D

CS 79 430

U7 STEREO DECODER 4822 212 21261

IC1-IC2	TBA120AS	4822 209 80357
BA317		4822 130 30847
BC548		4822 130 40938
BC548C		4822 130 44196
BC558		4822 130 40941
BZX79/B4V7		4822 130 34174
BZX79/B8V2		4822 130 34382
U1	Stereo matrix	4822 212 21258
U2	Stereo identification	4822 212 21069
R5	Potm. 1 kΩ	4822 100 10037
R8	Potm. 220 Ω	4822 100 10019
C33	820 pF - 250 V	5322 121 54072
S1		4822 156 20802
S2		4822 156 20995
S3		4822 156 20995
S4		4822 156 10579
S5		4822 156 10579
S6		4822 156 20995
S7		4822 156 20995
S8		4822 156 20925

U22 AUX. POWER SUPPLY 4822 212 21236

IC4	μA78M05	5322 209 84841
BAX13		4822 130 31011
BC337		4822 130 41095
BC548C		4822 130 44196
BY164		4822 130 30414
BY225/C100		4822 130 50312
R1	1.2 Ω - 0.33 W	4822 111 30485
R3	1.2 Ω - 0.33 W	4822 111 30485
R6	Potm. 100 Ω	4822 100 10075
VL1	T2A	4822 253 30025
RE1	Relay	4822 280 50031

U21 STEREO SOUND OUTPUT 4822 212 21237

IC1	TCA730A	4822 209 80806
IC3	TCA740A	4822 209 80807
IC101	TDA2020AD2	4822 209 80645
IC102	TDA2020AD2	4822 209 80645
IC141	MC7815CT	4822 209 80808
BA317		4822 130 30847
BC558B		4822 130 44197
1N4001		4822 130 31438
R115	1 Ω - 0.33 W	4822 111 30483
R116	1 Ω - 0.33 W	4822 111 30483
R1	47 kΩ - 0.4 W	4822 116 51295
R2	47 kΩ - 0.4 W	4822 116 51295
R3	47 kΩ - 0.4 W	4822 116 51295
R4	47 kΩ - 0.4 W	4822 116 51295
R101	100 kΩ - 0.4 W	4822 116 51268
R102	100 kΩ - 0.4 W	4822 116 51268
R107	9.1 kΩ - 0.4 W	4822 116 51323
R108	9.1 kΩ - 0.4 W	4822 116 51323
R113	120 kΩ - 0.4 W	4822 116 51336
R114	120 kΩ - 0.4 W	4822 116 51336
C7	1.8 nF - 160 V	4822 121 41387
C8	1.8 nF - 160 V	4822 121 41387
C9	1.8 nF - 160 V	4822 121 41387
C10	1.8 nF - 160 V	4822 121 41387
C111	2200 μF - 40 V	4822 124 20797
C112	2200 μF - 40 V	4822 124 20797
C145	2200 μF - 40 V	4822 124 20797

U25 AV INTERFACE PANEL 4822 212 21229

IC10	HEF4066 BP	5322 209 14104
BA317		4822 130 30847
BC548		4822 130 40938
BC548C		4822 130 44196
BC558		4822 130 40941
BZX79/C3V6		5322 130 34834
BU3	21-pole	4822 267 60098

U24 TRD IV-90 PANEL

IC20	UPD8049C-163	4822 209 10171
IC93	SAB3034	4822 209 10169
IC99	TL061GCP-00	4822 209 80963
BA220		4822 130 34221
BA221		4822 130 30831
BA317		4822 130 30847
BAS11		4822 130 41273
BC547A		4822 130 41019
BC548		4822 130 40938
BC548A		4822 130 40948
BC548B		4822 130 40937
BC548C		4822 130 44196
BC557		4822 130 44256
BC558		4822 130 40941
BC558C		4822 130 44197
BZX79/B5V6		4822 130 34173
BZX79/B6V2		4822 130 34167
BZX79/B6V8		4822 130 34278
BZX79/B22		4822 130 34441
ZTE3,9		4822 130 31514
R35	560 Ω - 1.6 W	4822 116 51106
R114	10 kΩ - 0.4 W	4822 116 51253
R115	2.2 kΩ - 0.4 W	4822 116 51245
R117	39 kΩ - 0.4 W	4822 116 51262
S15		4822 157 50943
S21		4822 157 50943
S113		4822 157 50943
U4		4822 212 21227
U5		4822 212 21228
U15		4822 212 21226
KT1	6 MHz	5322 242 74364

U32 DISPLAY PANEL 4822 212 21233

U1		4822 212 21165
CQW10 (red)		4822 130 31512
CQW12 (yellow)		4822 130 31513
S4		4822 157 50943

U33 LOCAL KEYBOARD 4822 212 21232

R26	Potm. 22 kΩ	5322 100 10118
SK3	Rotary switch 1x	4822 273 40305
Tip switch 8x		4822 276 10799

U41 HEADPHONE PANEL 4822 212 21234

BU2+SK4	4822 267 10093

MISCELLANEOUS

2 p	4822 265 20172
3 p	4822 265 30121
4 p	4822 265 30119
5 p	4822 267 40247
6 p	4822 265 30117
7 p	4822 265 40119
1 p	4822 266 20063
2 p	4822 266 20073
3 p	4822 266 30071
4 p	4822 266 30072
5 p	4822 266 30075
6 p	4822 266 30073
7 p	4822 266 40057

IC

8 p	4822 255 40164
14 p	4822 255 40136
16 p	5322 255 44185
18 p	4822 255 40239
24 p	4822 267 70094
28 p	5322 255 44047
40 p	4822 255 40129

-VARIOUS-

BU-1		4822 267 40201
S100	AD2096/T8	4822 240 30157
S101	AD2096/T8	4822 240 30157
S102	AD3891/X8	4822 240 20215
S103	AD3891/X8	4822 240 20215
T92	Mainstransformer	4822 146 70048
U2	Mains module	4822 212 21123
U3	Coax assy	4822 321 20478
U5	IF module	4822 212 21175
U6	Channel selector V334LO	4822 210 40192
U6	Channel selector V317LO (/10Z)	4822 210 40191
U8	Channel selector U324LO	4822 210 50093
U9	Chrom./Luminance (/02Z/10Z)	4822 212 21126
U10	RGB module	4822 212 20616
U11	Supply driver module	4822 212 21114
U12	Sync. module	4822 212 21164
U18	Prescaler PREM4	4822 212 21286
U34	I.R. receiver	4822 212 20753
U47	Adapter panel (/42Z)	4822 212 21192
U101	PAL/SECAM (/42Z)	4822 212 20694
U430	Y-automatic Pal/Secam (/42Z)	4822 210 40191
VLT	Mains transformer	4822 252 20017

U24
TRD IV-90 PANEL

MONO PANEL CHASSIS K35

U2 MAINS RECTIFIER

U91 DEFLECTION

DEGAUSSING

U9 CHROMA

U7 STEREO DECODER

U18

U6 VHF

U8 UHF

U10 R G-B

U32 DISPLAY

U34 IR-RECEIVER

U33 LOCAL KEYBOARD

U1 PICTURE TUBE PANEL

U22 AUXILIARY POWER SUPPLY

U25 AV INTERFACE

U21 STEREO SOUND OUTPUT

U41 HEADPHONE PANEL

220V~

24623E2/A

(D)

EINSTELLUNGEN DES STEREODECODERS U7

Wo beim Abgleichen von einem Generatorsignal die Rede ist, wurde der Farbmustergenerator PM5519GX eingesetzt.

1. 5,5-MHz-Tonteil

Ein Sender- oder Generatorsignal dessen Tonträger mit einer Frequenz (z.B. 1 kHz) moduliert ist, einspeisen.
Generator in Monostellung bringen.
S2 und S4 auf Höchst-Lautstärke abgleichen.
Anschliessend S6 auf Mindeststörung im Ton abgleichen.

2. 5,742-MHz-Tonteil

a. Ein Sendersignal mit 2 Tonträgern zuführen.
Beide Tonträger sind mit einer Frequenz (z.B. 1 kHz) moduliert und der zweite Tonträger führt das Pilotsignal für die zweite Sprache.
Am Gerät den Stereo/Mono-Schalter SK2 in die Stereostellung bringen und mit Hilfe der Taste "I-II" auf der Fernbedienung das Gerät in die Stellung "Mono-Kanal II" bringen.

Achtung!
Wenn das Gerät von der Bereitschaftsstellung her eingeschaltet wird, befindet sich das Gerät in der Stellung "Mono - Kanal I".

b. Oder ein Generatorsignal zuführen.
Generator in Stereostellung bringen und die Taste "1 (L), 1+2 (R)" drücken.
Dann S1, S3 und S5 auf Höchst-Lautstärke abgleichen und S7 auf Mindeststörung im Ton abgleichen.

3. Kanaltrennung

Ein Generatorsignal zuführen.
Generator in Stereostellung bringen und Taste "1 (L), 1+2 (R)" betätigen.
Gerät mit Hilfe des Mono/Stereo-Schalters SK2 in die Stereostellung bringen. Oszilloskop an Punkt 1 von Stecker P34 schalten.
R8 dahin einstellen, dass das Signal an Punkt 1 von Stecker P34 Mindestwert aufweist.

4. Ausgangsspannung an Mono-Kanal I/Mono-Kanal II

Ein Generatorsignal zuführen.
Generator in die Stellung "second language" (zweite Sprache) bringen durch betätigung der Taste "1 (L), 1+2 (R)".
Am Gerät den Mono/Stereo-Schalter SK2 in Stereostellung bringen. Oszilloskop schalten an Punkt 1 von Stecker P34.
Dann das Gerät mit Hilfe der Taste "I-II" an der Fernbedienung in die Stellung "Mono-Kanal II" bringen.
Amplitude des Signals an Punkt 1 von Stecker P34 notieren.
Gerät in die Stellung "Mono-Kanal I" bringen durch wiederholtes Drücken des Taste "I-II" der Fernbedienung. R5 dahin einstellen, dass die Amplitude des Signals an Punkt 1 von Stecker P34 gleich dem notierten Wert ist.

(I)

REGOLAZIONI DECODATORE U7

Nelle regolazioni ove si tratta di un segnale di generatore è stato usato un generatore di segnale colori PM5519GX.

1. Sezione suono 5,5 MHz

Fornire un segnale di emettitore e di generatore di cui il porta suono viene modulato con una frequenza di 1 kHz, per esempio.
Positionnare il generatore su mono.
Regolare S2 e S4 per un intensità sonora massima.
Quindi regolare S6 per un interferenza minima del suono.

2. Sezione suono 5,742 MHz

Fornire ,
a. un segnale di emettitore con due portanti suono di cui l'una viene modulata con una frequenza di 1 kHz, per esempio e la seconda è provvista di un segnale pilota per la seconda lingua.
Regolare il commutatore mono/stereo SK2 sull'apparecchio in posizione stereo per mezzo del tasto I-II sul tele comando, l'apparecchio esseudo sul "canale-mono II".

N.B.
Se l'apparecchio fosse avviato dalla posizione di attesa, l'apparecchio è posizionato su "canala-mono I".

b. Un segnale di generatore. Posizionare il generatore in stereo e premere il tasto "1 (L), 1+2 (R)".
Quindi regolare S1, S3 e S5 su di un intensité del suono massima e S7 per un interferenza minima del suono.

3. Separazione dei canali

Fornire un segnale di generatore.
Posizionare il generatore su di "stereo" e premere il tasto "1 (L), 1+2 (R)".
Grazie al commutatore SK2 mono/stereo, commutare su stereo.
Collegare un oscillografo sul punto 1, spina P34.
Regolare R8 in modo che il segnale sul punto 1 della spina P34 sia al minimo.

4. Tensione d'uscita canale mono I/canale mono II

Fornire un segnale di generatore. Posizionare il generatore su "2da linga" nel premere il tasto "1 (L), 1+2 (R)".
Sull'apparecchio, posizionare il commutatore mono/stereo SK2 su di stereo. Collegare un oscillografo al punto 1 della spina P34.
Sul telecomando, posizionare per mezzo del tasto "I-II" l'apparecchio sul canale "mono II".
Prendere appunti dell'amplitudine del segnale sul punto 1 della spina P34.
Posizionare l'apparecchio sul canale "mono I" premendo di nuovo il tasto "I-II" del telecomando.
Quindi regolare R5 in modo che l'amplitudine del segnale sul punto 1 di P34 sia simile al valore notato.